

Differences Between Private Sector And Federally Constructed Beach Nourishment Projects

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Areas Where Federal and Private Sector Project Experience Varies



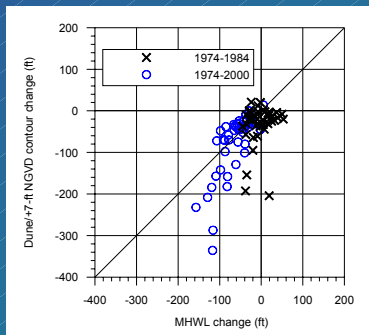
- **Project Performance**
- **Time to Construct**
- **Cost to Construct**

Both Entities Serve the Same Clientel

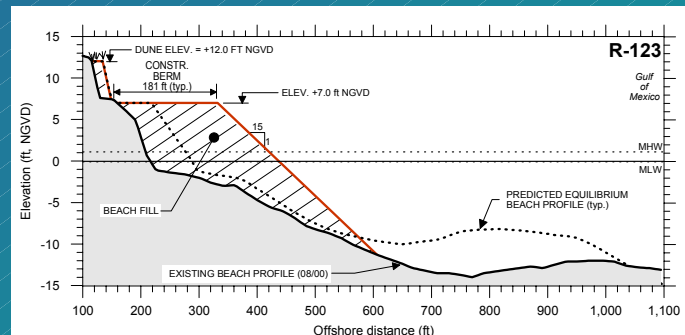
Time to Construct (Start to Finish)

- **Non-Federal:** 2 to 3 years
- **Federal:** 8 to 12 years

STUDIES



DESIGN



CONSTRUCTION



**Federal Shore Protection Project
feasibility studies alone amount to
10 to 20% of the overall project
cost to construct**

**Federal feasibility studies are
substantially less about design
and more about compliance
with policy guidelines**

Private Sector Studies are unencumbered by such regulations and therefore free to appropriately focus on design issues



That is, non-Federal shore protection projects become justified in accordance with the precept of satisfying the client's needs in the most cost-effective manner possible, rather than satisfying the requirements of higher authority.

EXAMPLE:

Baldwin County, AL

USACE Shore Protection Project

- **Feasibility Study Proposal**
 - **Study Duration – 4 years**
 - **Study Cost - \$3.3M**
 - **Proposal - Compliance with 68 Statutory, Regulatory, and Policy Directives**

COMPARISON: 2001 Gulf Shores, AL Beach Restoration Project

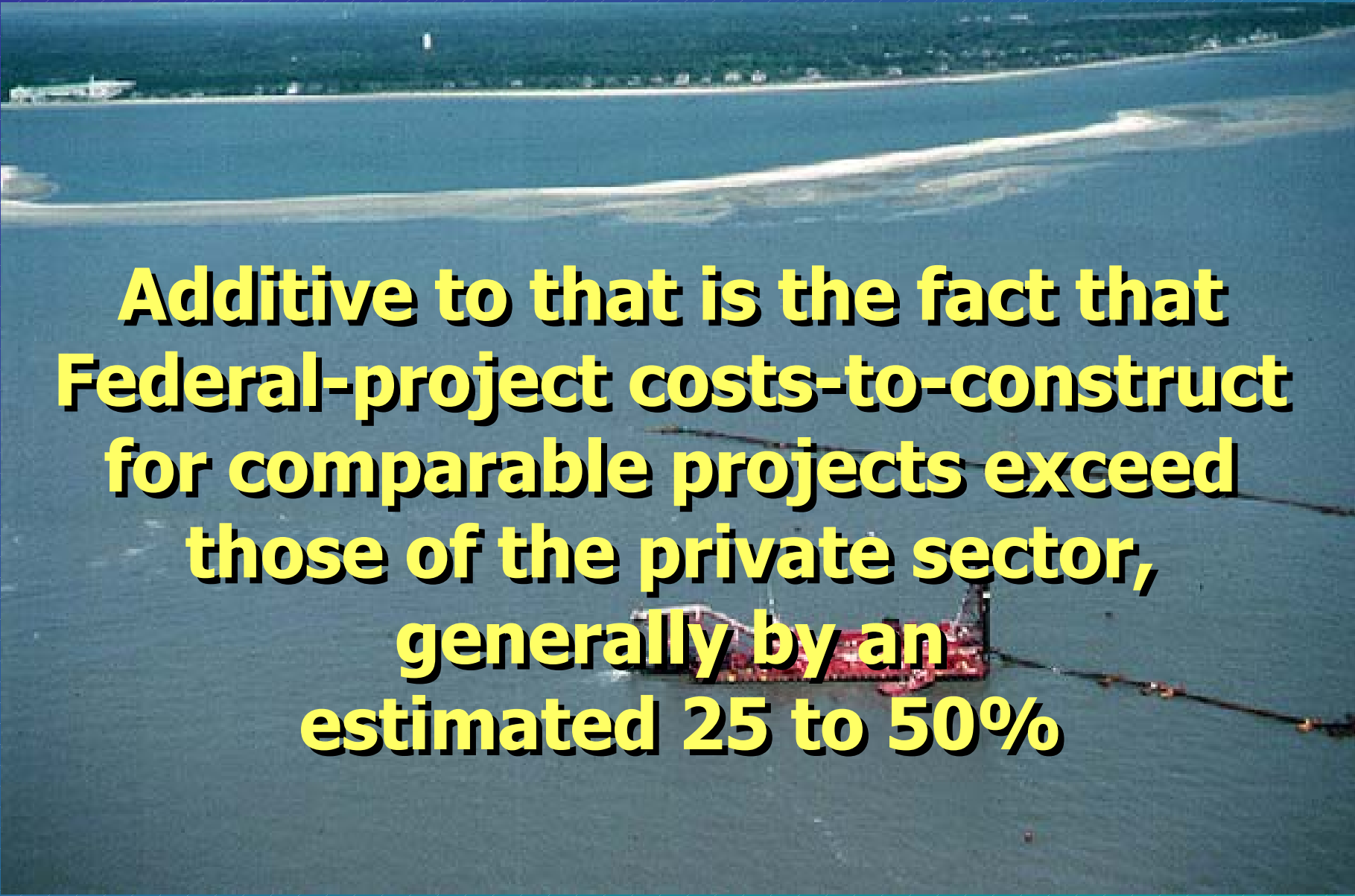
- **Total Time – 15 Months**
- **Total Cost - \$4.1M**



3.1 miles

1.41 Million Cubic Yards - Pay Volume

1.64 Million Cubic Yards – Placed Volume



**Additive to that is the fact that
Federal-project costs-to-construct
for comparable projects exceed
those of the private sector,
generally by an
estimated 25 to 50%**



**Similarly, non-Federal
procurement requirements
are more streamlined
and conducive to generating
competition in a marketplace
which is extremely limited.**

Project Performance

- **Design Approach**

- **Federal Project:** **Regimented and Standardized**
- **Non-Federal Project:** **Flexible and Holistic**

DESIGN APPROACH

Examples of Differences



- **Hot spots,**
- **Design life,**
- **Use of structures in concert with beach fill,**
- **Permitting.**

PROJECT PERFORMANCE

Professional Responsibility

- **Federal – Division of Responsibility by Branch**
- **Private Sector – Single Professional**

Research Recommendations (WES)

- **Expand the body of knowledge regarding the dynamics of stabilizing structures for beach nourishment projects,**
- **Formulate for use by both Federal and non-Federal engineers a form of Coastal Engineering Design Notes which summarize state-of-the-art design guidance regarding the use of structures with beach fill.**